

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/760082	US-PGPUB; USPAT	OR	ON	2007/02/27 16:52
S2	4458	382/100	US-PGPUB; USPAT	OR	ON	2007/02/16 09:43
S4	2159	382/240	US-PGPUB; USPAT	OR	ON	2007/02/16 10:27
S5	236	watermark\$3 wavelet coefficient\$1 (blocks or tiles) (@ad<"20030115" not continuation)	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/16 10:29
S6	209	image compress\$3 watermark\$3 wavelet coefficient\$1 (blocks or tiles) (@ad<"20030115" not continuation)	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/16 10:30
S7	214	image compress\$3 watermark\$3 wavelet coefficient\$1 (@ad<"20030115" not continuation)	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/19 16:17
S8	193	embed\$5 image compress\$3 watermark\$3 wavelet coefficient\$1 (@ad<"20030115" not continuation)	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 10:41
S9	221	embed\$5 image watermark\$3 wavelet coefficient\$1 (@ad<"20030115" not continuation)	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/16 10:33
S13	215	image compress\$3 watermark\$3 "JPEG 2000" frequenc\$3 (@ad<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/19 17:26
S14	206	image wavelet compress\$3 watermark\$3 "JPEG 2000" frequenc\$3 (@ad<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/19 17:59
S15	204	image encod\$3 wavelet compress\$3 watermark\$3 "JPEG 2000" frequenc\$3 (@ad<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/19 18:12
S16	204	image encod\$3 wavelet compress\$3 watermark\$3 "JPEG 2000" frequenc\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/19 18:42
S17	204	encod\$3 wavelet compress\$3 watermark\$3 "JPEG 2000" frequenc\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/19 19:04
S18	171	Acharya-Tinku.in.	US-PGPUB; USPAT	OR	ON	2007/02/19 18:48
S19	17	Acharya-Tinku.in. watermark	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/19 18:48

## EAST Search History

S20	136	encod\$3 wavelet with coefficients watermark\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/20 09:38
S21	132	embed\$5 encod\$3 wavelet with coefficients watermark\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/20 09:42
S22	15	embed\$5 encod\$3 wavelet with coefficients watermark\$3 JPEG adj2 "2000" (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 16:52
S23	0	"embed\$5 intensity" (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/20 10:05
S24	23	"embedding intensity" (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/20 10:06
S25	18	"embedding intensity" watermark (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/20 10:28
S26	5	"embedding intensity" wavelet watermark (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/20 10:44
S27	31	embedding with intensity wavelet watermark (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 11:38
S28	2	embedding with intensity wavelet watermark JPEG adj2 "2000" (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/20 11:27
S29	5	embed\$5 with intensity wavelet watermark JPEG adj2 "2000" (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/20 11:51
S30	5	embed\$5 with intens\$3 wavelet watermark JPEG adj2 "2000" (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/20 11:51
S31	31	embedding with intensity intensity wavelet watermark (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/26 18:03
S32	55	embedding with intensity intensity watermark visual (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/26 18:06

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S34	28	embedding with intensity intensity watermark high with frequenc\$5 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/26 18:11
S35	30	embedding with intensity intensity watermark (high with frequenc\$5 or HH) (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 11:55
S36	55	embedding with intensity intensity watermark (visual or HVS) (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/26 18:16
S37	1	10/760082 (rectangular adj region\$1) same frequenc\$3	US-PGPUB; USPAT	AND	ON	2007/02/26 18:35
S38	1	10/760082 (rectangular adj region\$1) same frequenc\$3 tile\$1	US-PGPUB; USPAT	AND	ON	2007/02/26 18:35
S39	0	embedding with intensity intensity watermark (high with frequenc\$5) ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 08:49
S40	28	embedding with intensity intensity watermark (high with frequenc\$5) (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 09:06
S41	5	09/626984	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 09:05
S42	1	embedding with intensity intensity watermark (high with frequenc\$5) (@ad<"20030115" or @pd<"20030115") 09/626984	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 09:13
S43	9	embedding with intensity intensity watermark (high with frequenc\$5) (@ad<"20030115" or @pd<"20030115") HVS	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 09:13
S44	2	09/971690	US-PGPUB; USPAT	OR	ON	2007/02/27 10:17
S45	255	embedding with (information or message) wavelet watermark (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 11:38
S46	383	embedding with information watermark (high with frequenc\$5) (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 11:56

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S47	383	embedding with information watermark (high with frequenc\$5) (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 12:01
S48	0	embedding with information with heavy watermark (high with frequenc\$5) (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 12:27
S49	0	embedding ROI watermark wavelet (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 12:38
S50	4552	ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 12:28
S51	4	ROI watermark wavelet (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 12:43
S52	4	(ROI or "region of interest") watermark wavelet (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 12:44
S53	441	region watermark wavelet (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 13:15
S54	83	ROI watermark (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 13:16
S55	4	ROI watermark wavelet (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 13:17
S56	0	ROI watermark embed\$3 with intensity (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 13:16
S57	77	ROI embed\$3 with intensity (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 13:16
S58	0	ROI watermark wavelet embed\$3 with intensity (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 13:17
S59	4	ROI watermark wavelet embed\$3 with intensity	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 13:17
S60	0	("2004/0001609").URPN.	USPAT	OR	ON	2007/02/27 13:18
S61	1	watermark with intensity ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:12

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S62	0	watermark with intensity wavelet\$1 ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 16:53
S63	365	(watermark with intensity) or (embedding with intensity) ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:15
S64	1	((watermark with intensity) or (embedding with intensity)) ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:35
S65	365	(watermark with intensity) or (embedding with intensity) and ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:38
S66	1	(embedding with intensity) and ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:39
S67	1	embedding with intensity and ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:39
S68	41	embedding with watermark\$3 and ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:39
S69	1	intensity with watermark\$3 and ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:45
S70	1	intensity with watermark\$3 and (ROI or "region of interest") (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:51
S71	6	intensity with watermark\$3 and ROI or "region of interest" (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:52
S72	0	intensity with watermark\$3 and "region of interest" (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:52
S73	1	intensity with watermark\$3 and region adj2 interest (@ad<"""20030115""" or @pd<"""20030115""")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 17:53
S74	1	ROI intensity with watermark\$3 and region adj2 interest (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/27 18:13

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S75	135	watermark\$3 subband\$1 embed\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 08:55
S76	12	tile\$1 watermark\$3 subband\$1 embed\$3 intensity with embedd\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 08:59
S77	12	tile\$1 watermark subband\$1 embed\$3 intensity with embedd\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 09:03
S78	12	tile\$1 watermark subband\$1 intensity with embedd\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 09:20
S79	12	tile\$1 watermark subband\$1 intensity with embedd\$3 watermark with intensity (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 09:26
S80	24	tile\$1 watermark intensity with embedd\$3 watermark with intensity (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 09:29
S81	18	tile\$1 watermark intensity with embedd\$3 wavelet (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 09:36
S82	0	tile\$1 watermark intensity with embedd\$3 wavelet subband roi (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 09:36
S83	0	tile\$1 watermark intensity with embedd\$3 wavelet roi (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 09:36
S84	18	tile\$1 watermark intensity with embedd\$3 wavelet (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 09:36
S85	0	strong with embedding with intensity ROI (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 14:46
S86	3	strong with embedding with intensity (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 16:47
S87	789	frequenc\$3 watermark embedding with information (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 16:50

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S88	4567	frequenc\$3 (watermark with information) or (embedding with information) (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 16:51
S89	1642	frequenc\$3 embedding with information (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 16:52
S90	4493	382/100	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 16:52
S91	1642	frequenc\$3 embedding with information information (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 16:54
S92	528	frequenc\$3 embedding with information watermark with information (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 16:56
S93	3	frequenc\$3 embedding with information with strong watermark (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 17:26
S94	121	high with frequenc\$3 with embedd\$3 with information (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 18:02
S95	34	high with frequenc\$3 with embedd\$3 with information watermark wavelet (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 19:05
S96	0	many with high with frequenc\$3 with embedd\$3 with information watermark wavelet (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 19:06
S97	0	lot with high with frequenc\$3 with embedd\$3 with information watermark wavelet (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/02/28 19:06
S98	23	wang-jue.in.	US-PGPUB; USPAT	OR	ON	2007/03/01 11:32
S99	23	wang-jue.in.	US-PGPUB; USPAT	AND	ON	2007/03/01 11:32
S100	2	10/336650 high with frequenc\$3	US-PGPUB; USPAT	AND	ON	2007/03/01 18:13

## EAST Search History

S10 1	1	10/760082	US-PGPUB; USPAT	OR	ON	2007/10/02 16:41
S10 2	2	"20020051560"	US-PGPUB; USPAT	OR	ON	2007/10/02 16:43
S10 3	2	"20040001608"	US-PGPUB; USPAT	OR	ON	2007/10/02 16:43
S10 4	5	embed\$5 with heavy watermark\$3 image (@ad<"20030115" not continuation)	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 17:57
S10 7	3	embed\$5 with heavy watermark\$3 high with frequenc\$3 image (@ad<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 10:48
S10 8	122	embed\$5 with (high adj frequenc\$3) watermark\$3 image (@ad<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 13:56
S11 2	77	(Abe-Yasushi.in. Yagishita-Takahiro. in. Kadowaki-Yukio.in. Nishimura-Takayuki.in.) and (@ad<"20030115")	US-PGPUB; USPAT; IBM_TDB	OR	ON	2007/11/19 10:54
S11 3	21	S112 high near frequenc\$3	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 10:50
S11 4	6	S112 high near frequenc\$3 embed\$4	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 10:51
S11 5	5	S112 high near frequenc\$3 same embed\$4	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 11:44
S11 9	220	high adj frequenc\$3 same watermark\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 10:59
S12 0	220	high adj frequenc\$3 same watermark\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 11:04
S12 1	106	high adj frequenc\$3 with (embed\$3 or insert\$3) watermark\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 16:19
S12 2	47	wavelet high adj frequenc\$3 with (embed\$3 or insert\$3) watermark\$3 (@ad<"20030115" or @pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 11:15
S12 7	6	S112 watermark\$3	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 11:46

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S12 8	1	S112 watermark\$3 (@pd<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 11:46
S12 9	0	embed\$5 with (high adj frequenc\$3) tile with (high adj frequenc\$3) image (@ad<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 13:56
S13 0	236	(embed\$5 or insert\$3) with (high adj frequenc\$3) (tile or block or region) with (high adj frequenc\$3) image (@ad<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 13:57
S13 1	45	(embed\$5 or insert\$3) with (high adj frequenc\$3) (tile or block or region) with (high adj frequenc\$3) image (@ad<"20030115") watermark\$3	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 13:58
S13 2	43	(embed\$5 or insert\$3) with (high adj frequenc\$3) (tile or block or region) with (high adj frequenc\$3) image (@ad<"20030115") watermark	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 14:59
S13 3	1	"20040081367"	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 14:59
S13 4	2	09/971690	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 16:19
S13 5	3	(insert\$3 or embed\$5) with ROI watermark\$3 image (@ad<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 18:25
S13 6	2	ROI with watermark\$3 image (@ad<"20030115")	US-PGPUB; USPAT; IBM_TDB	AND	ON	2007/11/19 18:25